

WHAT IS CLAIMS IS:

1. A preparation method for a polymer electrolyte fuel cell which uses an assembly comprising a polymer electrolyte membrane and gas diffusion electrodes bonded to both sides of the membrane, which method comprises the step of "bringing" the polymer electrolyte membrane and the gas diffusion electrodes "to a bonding temperature" while applying thereto a pressure and the step of applying thereto a bonding pressure not lower than the pressure applied in the preceding step after the bonding temperature has been reached.
2. The preparation method for a polymer electrolyte fuel cell according to Claim 1 wherein the pressure applied in the preceding step is 5-75 kgf/cm<sup>2</sup>.
3. A polymer electrolyte fuel cell which comprises a hydrogen and an oxygen electrodes consisting essentially of a membrane electrode assembly comprising a polymer electrolyte membrane and gas diffusion electrodes bonded to both sides of the membrane, and means for supplying a reducing agent and an oxidizing agent, wherein the assembly comprising the polymer electrolyte membrane and the gas diffusion electrodes prepared by the method according to Claim 1 or 2.